

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6185258").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/25 16:15
S1	569	(375/265).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/25 16:15
S2	31	MIMO and TCM	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:39
S3	137	(multiple adj2 input adj2 multiple adj2 output) and (trellis near3 cod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:40
S4	152	S2 or S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:41
S5	7596	(multiple or two or several) near3 (transmit\$4 near4 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:42
S6	12850	(multiple or two or several) near3 (receiv\$4 near4 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:42
S7	4613	S5 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:42

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S8	91	S4 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:43
S9	783	rotation\$4 with constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 08:45
S10	6	S8 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:54
S11	25	S8 and (convolutional near3 encod\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:32
S12	6	S11 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:05
S13	6	S12 and (channel near3 matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:36
S14	5	S2 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:54
S15	8	S3 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:55

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S16	203	S9 and (TCM or trellis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:55
S17	127	S16 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:55
S18	1	S17 and MIMO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:57
S19	0	S17 and (rotation SAME distinct SAME real SAME imag\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:58
S20	4	S17 and (rotation SAME distinct)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:58
S21	1	(US-4891823-\$).did.	USPAT	OR	ON	2006/10/25 14:03
S22	3	S2 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:03
S23	0	S22 and (diversity same real same imag\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:04
S24	0	S22 and (diversity same real same antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:04

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S25	317	real same diversity same antenna	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:04
S26	133	S25 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:45
S27	133	S26 and (real WITH symbol with first antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:17
S28	1	S27 and (imag\$6 WITH symbol with second with antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:10
S29	4	S27 and MIMO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:17
S30	1	(US-20020126648-\$).did.	US-PGPUB	OR	ON	2006/10/25 14:29
S31	1085	space near3 time near3 diversity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:45
S32	375	S31 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:01
S33	7	S32 and (real with symbols with antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:52

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S34	0	S32 and (real with (first near2 symbol) with (second near2 symbol) with antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:53
S35	4	S32 and (real same(first near2 symbol) same(second near2 symbol) same antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:00
S36	220	diversity and (real same antenna same symbol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:01
S37	87	S36 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:20
S38	9	S37 and MIMO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:02
S39	1	(US-6377631-\$).did.	USPAT	OR	ON	2006/10/25 15:17
S40	0	(label near3 metric) and coset and MIMO	USPAT	OR	ON	2006/10/25 15:17
S41	2	(label near3 metric) and coset	USPAT	OR	ON	2006/10/25 15:19
S42	207	(distance near3 metric) and antenna	USPAT	OR	ON	2006/10/25 15:19
S43	10	S42 and (channel near3 matrix)	USPAT	OR	ON	2006/10/25 15:20
S44	8	S43 and @pd<"20030813"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 15:20


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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

- 1. **Performance comparison of space-time coding techniques**
Bevan, D.; Tanner, R.;
[Electronics Letters](#)
Volume 35, Issue 20, 30 Sept. 1999 Page(s):1707 - 1708
Digital Object Identifier 10.1049/el:19991215
[Abstract](#) | [Full Text: PDF\(260 KB\)](#) [IEE JNL](#)
- 2. **Iterative equalization and decoding with channel shortening filters for sp: modulation**
Bauch, G.; Al-Dhahir, N.;
[Vehicular Technology Conference, 2000. IEEE VTS-Fall VTC 2000. 52nd](#)
Volume 4, 24-28 Sept. 2000 Page(s):1575 - 1582 vol.4
Digital Object Identifier 10.1109/VETECF.2000.886095
[Abstract](#) | [Full Text: PDF\(632 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)
- 3. **Space-frequency turbo coded OFDM for future high data rate wideband r:**
Tujkovic, D.; Juntti, M.; Latva-Aho, M.;
[Vehicular Technology Conference, 2001. VTC 2001 Fall. IEEE VTS 54th](#)
Volume 4, 7-11 Oct. 2001 Page(s):2304 - 2308 vol.4
Digital Object Identifier 10.1109/VTC.2001.957157
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- 4. **Performance of space-time coding with HIPERLAN/2 and IEEE 802.11a W on real channels**
Piechocki, R.; Fletcher, P.; Nix, A.; Canagarajah, N.; McGeehan, J.;
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Volume 2, 7-11 Oct. 2001 Page(s):848 - 852 vol.2
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- 5. **A flexible space-time turbo coding scheme**
Shu Li; Chengde Han;
[Info-tech and Info-net, 2001. Proceedings. ICII 2001 - Beijing. 2001 Internation on](#)
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- 6. High bandwidth efficiency space-time turbo coded modulation**
Tujkovic, D.;
[Communications, 2001. ICC 2001. IEEE International Conference on](#)
Volume 4, 11-14 June 2001 Page(s):1104 - 1109 vol.4
Digital Object Identifier 10.1109/ICC.2001.936826
[Abstract](#) | Full Text: [PDF\(568 KB\)](#) IEEE CNF
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- 7. Low rate space-time trellis codes in power limited wireless communications**
Gang Wu; Haifeng Wang; Ming Chen; Shixin Cheng;
[Vehicular Technology Conference, 2001. VTC 2001 Fall. IEEE VTS 54th](#)
Volume 4, 7-11 Oct. 2001 Page(s):2414 - 2417 vol.4
Digital Object Identifier 10.1109/VTC.2001.957182
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- 8. Analytical evaluation of space-time transmit diversity with FEC-coding**
Bauch, G.; Hagenauer, J.;
[Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE](#)
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Digital Object Identifier 10.1109/GLOCOM.2001.965154
[Abstract](#) | Full Text: [PDF\(381 KB\)](#) IEEE CNF
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- 9. MIMO iterative decoding of serial concatenation using space-time trellis codes**
Eun Jeong Yim; Dong Ku Kim; Hong-Yeop Song;
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- 10. Performance of space-time trellis codes in frequency selective WCDMA systems**
Yang, H.; Yuan, F.; Vucetic, B.;
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Volume 1, 24-28 Sept. 2002 Page(s):233 - 237 vol.1
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[Abstract](#) | Full Text: [PDF\(326 KB\)](#) IEEE CNF
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- 11. Turbo-TCM and transmit antenna diversity in multipath fading channels via equalization**
Mohammad-Khani, G.R.; Cances, J.P.; Meghdadi, V.;
[Acoustics, Speech, and Signal Processing, 2002. Proceedings. \(ICASSP '02\). International Conference on](#)
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- 12. The impact of channel estimation errors on space-time trellis codes paired with equalization/decoding**
Gozali, R.; Woerner, B.D.;
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- 13. **Trellis-coded differential unitary space-time modulation: performance and design criteria**
Zhenyu Sun; Gjeng Thiang Tjhung;
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- 14. **Comparative study of turbo coded wideband adaptive modulation and space-time codes**
Liew, T.H.; Yeap, B.L.; Hanzo, L.;
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Volume 3, 6-9 May 2002 Page(s):1457 - 1461 vol.3
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- 15. **Combined array processing and space-time turbo coded modulation for 16QAM downlink over frequency-selective Rayleigh fading channels**
Tujkovic, D.; Sotani, E.;
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Volume 2, 2-5 Sept. 2002 Page(s):313 - 317 vol.2
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- 16. **A class of MIMO systems using transmit diversity pre-combining scheme and optimum space-time trellis code**
Su Hwan Lim; Seong Keun Oh;
[Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE 55th](#)
Volume 2, 6-9 May 2002 Page(s):736 - 740 vol.2
Digital Object Identifier 10.1109/VTC.2002.1002584
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- 17. **Weight error loss for wireless systems with antenna arrays**
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- 18. **Obtaining full-diversity space-frequency codes from space-time codes via linear precoding**
Weifeng Su; Safar, Z.; Olfat, M.; Liu, K.J.R.;
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Volume 51, Issue 11, Nov 2003 Page(s):2905 - 2916
Digital Object Identifier 10.1109/TSP.2003.818200
· [Abstract](#) | [Full Text: PDF\(912 KB\)](#) | [IEEE JNL](#)
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- 19. **Iterative decoding of concatenated layered space-time trellis codes on M-path AWGN channel**

Berthet, A.O.; Visoz, R.;
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- 20. **New design criteria of space-time codes for frequency-selective multipath channels**
Ching-Shyang Maa; Yeong-Cheng Wang; Jiunn-Tsair Chen;
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- 21. **A sphere packing bound on Rayleigh block-fading MIMO channels**
Fozunbal, M.; McLaughlin, S.W.; Schafer, R.W.;
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- 22. **2003 IEEE International Conference on Communications (Cat. No.03CH37**
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- 23. **Pair space-time trellis codes and linear constellation preceding for MIMO**
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- 24. **A new approach to space-time-channel layering and coding for frequency-selective channels**
Wang, X.F.;
Communications, Computers and signal Processing, 2003. PACRIM. 2003 IEEE Conference on
Volume 1, 28-30 Aug. 2003 Page(s):106 - 110 vol.1
[Abstract](#) | [Full Text: PDF\(402 KB\)](#) IEEE CNF
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- 25. **High speed wireless data transmission in layered space-time trellis code**
Runhua Chen; Letaief, K.B.;
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- 26. **A new diversity scheme for frequency selective MIMO channels**
Alkhawaldeh, S.; Xiaofeng Wang; Shayan, Y.;

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- 27. **On performance analysis and design criteria for trellis coded unitary space modulation**
Zhenyu Sun; Tjeng Thiang Tjhung;
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Volume 1, 16-20 March 2003 Page(s):262 - 267 vol.1
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- 28. **Concatenated space-time block code with trellis coded modulation in OFDM**
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- 29. **A comparison of inner coding options for adaptive MIMO OFDM systems**
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- 30. **Outage analysis and optimization of a stacked orthogonal space-time arc near-outage codes**
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- 31. **Performance evaluation of STTCs for virtual antenna arrays**
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- 32. **Ordered array processing for space-time coded systems**
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Digital Object Identifier 10.1109/LCOMM.2004.833848
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- 33. **Systematic space-time trellis code construction for correlated Rayleigh-fading channels**
Safar, Z.; Liu, K.J.R.;

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- 34. Turbo-coded adaptive modulation versus space-time trellis codes for training channels in dispersive channels**
Liew, T.H.; Yeap, B.L.; Choong Hin Wong; Hanzo, L.;
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- 35. Performance bounds for space-time block codes with receive antenna selection**
Xiang Nian Zeng; Ghayeb, A.;
[Information Theory, IEEE Transactions on](#)
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Digital Object Identifier 10.1109/TIT.2004.833363
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- 36. Multicarrier delay diversity modulation for MIMO systems**
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- 37. Leveraging coherent space-time codes for noncoherent communication**
Dayal, P.; Brehler, M.; Varanasi, M.K.;
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- 38. Iterative joint and interference alignment/cancellation decoding algorithms for noncoherent space-time trellis coded systems**
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- 39. A semiblind receiver for iterative data detection and decoding of space-time trellis coded systems**
Souza, R.D.; Garcia-Frias, J.; Haimovich, A.M.;
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- 40. Antenna selection for space-time trellis codes in fast fading**
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- 41. **Space-time codes in keyhole channels: analysis and design**
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- 42. **Reverse-ordered iterative decoding scheme for combining of spatial diversity and multiplexing**
Kwang Don Choe; Byung Min Song; Sang Kyu Park;
[Personal, Indoor and Mobile Radio Communications, 2004. PIMRC 2004. 15th International Symposium on](#)
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